

Abstract

In the case of a medical or dental handpiece (1) having a treatment tool driven by means of a drive part (11) via a transmission arrangement (5), the transmission arrangement (5) contains at least two planetary transmissions (20, 30) connected one  
5 after another, which each have a sun gear (22, 32) mounted on a drive shaft (21, 31), a planetary gear carrier (23, 33) having a plurality of uniformly distributed planetary gears (24, 34) cooperating with the sun gear (22, 32), and a hollow gear (25, 35), fixed to a housing, surrounding the planetary gears (24, 34), having an inner toothing (26, 36), wherein the planetary gear carrier (23) of at least one transmission stage (20)  
10 serves as drive shaft (31) and carrier of the sun gear (32) of the following transmission stage (30). In order to increase the stability of the arrangement the drive shaft (21, 31) for each transmission stage (20, 30) is extended beyond the sun gear (22, 32) driven thereby and in that the planetary gear carrier (23, 33) belonging to this sun gear (22, 32) is arranged rotatably on the extension.